

**Notice of Allowability****Application No.**

09/291,387

**Examiner**

Charles C. Chow

**Applicant(s)**

GUI ET AL.

**Art Unit**

2685

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/2/2004.
2. ☒ The allowed claim(s) is/are 1-23.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Allowable Subject Matter*

1. The following is an examiner's statement of reasons for allowance:

Claims 1-23 are allowable over the prior art of record, the prior art fails to teach singly, particularly, or in combination, for the claimed features in claims 1, 15, for the **designated reverse common channel to the reverse dedicated channel for transmitting** user's long data in divided segments (as shown in applicant's argument in page 5 of the remark, for the response for advisory office action). Because Ohta-277 (advisory office action) teaches the assigning common reverse channel for user terminal (col. 18, lines 7-12; col. 18, lines 48-53), which is not designating the common reverse channel to user terminal. The assigned common reverse channel is still shared with other user terminals, and the assigned common reverse channel is not dedicated for that user terminal to use, in regarding to the claimed dedicated channel in page 5 of applicant's remark (response to advisory) .

The claimed features are as follows: a method of transmitting user data on a reverse common channel with a reverse dedicated channel released, comprising the steps of designating the reverse common channel to the reverse dedicated channel, dividing user data into a plurality of segmented messages if the user data is longer than a data segment in a frame of the reverse common channel, transmitting the plurality of segmented messages in the data segments in the data segments of consecutive frames on the designated reverse common channel, and determining whether a base station receives each of the segmented messages (claim 1); a method of receiving a message via consecutive frames on a designated reverse common channel for a mobile station to base station, comprising the steps of checking the more flag field of each frame, checking CRCs, and determining whether the totality of message

Art Unit: 2685

segments transmitted via a consecutive frames are received at the base station by checking a count of the more flag field (claim 15). The dependent claims are also allowable due to their dependency upon the independent claims.

The closest patent to Needham et al. (US 5,517,507) teaches the transmitting of user data message 201, 205, either on the reverse or forward dedicated channel, such as the data messages 200 sent from base station to communication units 103 to 109, or may be sourced by a communication unit (col. 3, lines 46-48), having quality notification via the energy-burst responses (203 to 207) for the retransmission (abstract, Fig. 1 to Fig. 4-5), and the transmitting on consecutive frames of the user long data (col. 6, lines 40-48; col. 7, lines 49; col. 8, lines 52-55), the ACK and NACK (col. 1, lines 23-30; col. 5, lines 51-64). Needham fails to teach the **designated reverse common channel to the reverse dedicated channel**.

Other prior arts in below has been considered, but they fail to teach the above claimed features.

Ohta (US 5,878,277) teaches the central station in communication with terminal stations (abstract) and each uplink and downlink having at least two types of communication channels, one of which is the dedicated communication channels and the other of which is common communication channel (col. 17, line 62 to col. 18, lines 11). The control unit selects one from the dedicated channels and the common channels in response to a communication request from a terminal (abstract). Ohta teaches the system is a Cdma system as shown in col. 16, lines 26-42. Ohta teaches transmitting of variety of information (col. 6, lines 35-43) and efficient, low cost quality communication (col. 7, lines 8-15). Ohta fails to

Art Unit: 2685

teach the **designated reverse common channel to the reverse dedicated channel for transmitting user's long data in divided segments.**

Ayabe et al. (US 6,108,530) teaches a system for transmitting the divided-fragmented displayable message in between the base stations (110-1, 110-3, col. 4, lines 34-47, col. 4, lines 48-60, abstract), the assembling, reconstructing, of the received fragments (col. 2, lines 51-67); the marks for ready for reassembly (col. 7, lines 28-29); the inserting of any fragments received which is out of order (col. 9, lines 20-22). Ayabe fails to the **designated reverse common channel to the reverse dedicated channel.**

Tanno et al. (US 6,078,572) teaches the mobile station transmits a request to base station for transmission of larger data via the reverse access channel 10, and base station designates the transmission timing and spread code for mobile station to utilize (abstract, col. 19, lines 51-59). Tanno fails to teach the **designated reverse common channel to the reverse dedicated channel.**

Quick Jr. (US 5,673,259) teaches the bases station communicates with mobile digital transceivers by switching between the dedicated channel 214 and random access channel based on the bandwidth demand from the mobile digital transceivers, having bandwidth demand changing in between first and second threshold (abstract, col. 4, lines 30-38). Quick fails to teach the **designated reverse common channel to the reverse dedicated channel.**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2685

***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703)-305-4385.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

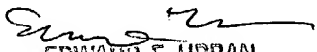
or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Charles Chow *C.C.*

August 30, 2004.

  
EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600